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theorems with demonstrations under each case. Twenty-six independent demonstrations are given of the Pythagorean theorem. The book will give much pleasure to teachers interested in the subject. J. M. C.

*Mensuration.* By S. A. Furst. 71 pages. Price, 50 cents. Harrisburg, Pa.: R. L. Myers & Co. 1899.

This little volume is intended to be supplemental to text-books both on arithmetic and geometry. The special feature of the work is the application of the prismoidal formula to finding the volume of solids. The work has many interesting problems and will doubtless meet with approval. J. M. C.

*The Hall Arithmetics*, (1) Elementary ; (2) Complete. By Frank H. Hall. 248 and 448 pages. Prices, 35 cents and 60 cents. New York and Chicago : The Werner School Book Co. 1899.

The prominent features of the Werner Arithmetics have been preserved in this series, but better adaption for use in ungraded schools has been secured. The books are progressive and practical in character, and abundant in the supply of concrete problems. In the treatment prominence is given the "magnitude idea," and the elements of algebra and geometry have been judiciously introduced. J. M. C.

*New Practical and New Higher Arithmetics.* By A. W. Rich, Ph., B., Associate Professor of Mathematics in the Iowa State Normal School. 222 and 320 pages. Prices, 50 cents and 75 cents, respectively. Chicago : A. Flanagan Co. 1900.

The *Practical* is intended for use in grammar grades. Special features are a set of tables and drills for mental work ; a presentation of definitions and principles in compact form ; model problem solutions ; and a great variety of test work. In the *Higher* book the mathematical signs are systematically presented, the model solution feature is carried forward, and larger place is given to definitions and principles. Numerous exercises and problems are given in all the different subjects. J. M. C.

*Hornbrook's Grammar School Arithmetic.* By A. R. Hornbrook, A. M. 416 pages. Price, 65 cents. American Book Co. 1900.

This book is designed for the last four years of grammar school work, and aims to develop in the pupil a ready skill in dealing with numbers. In many respects this book differs from the ordinary texts. Much use is made of constructive work with simple geometric forms. The book will repay examination. J. M. C.

We are indebted to Prof. Alexander Macfarlane, D. Sc., LL. D., Lecturer on Mathematical Physics at Lehigh University, for a copy of *Space-Analysis*, a brief of twelve lectures on the George Leib Harrison Foundation, delivered in College Hall, University of Pennsylvania, February 5 to March 2, 1900.

#### ERRATA.

[Due to errors in the copy.]

Vol. VII, No. 11 (November, 1900), page 240, in the diagram,

for  $\frac{\partial W}{\partial y} dy$ , read  $\frac{\partial W}{\partial y} dy = \delta$  ; for  $i \frac{\partial V}{\partial y} dy$ , read  $-i \frac{\partial V}{\partial y} dy$  ; for  $idy$ , read  $-idy$ .

Page 241, line 7 from top,

$$\text{for } \frac{\partial V}{\partial y} dy = \frac{\partial U}{\partial x} dx, \text{ read } \frac{\partial V}{\partial y} = \frac{\partial U}{\partial x}.$$